

Title (en)

Metal-coating a metallic substrate.

Title (de)

Beschichten eines metallischen Substrates mit Metall.

Title (fr)

Revêtement d'un substrat métallique avec du métal.

Publication

EP 0119036 A1 19840919 (EN)

Application

EP 84301322 A 19840229

Priority

GB 8306428 A 19830309

Abstract (en)

[origin: US4477291A] Aluminium is coated on steel strip. The steel strip is heated in hydrogen to reduce surface oxides to iron, and is then sprayed at 400 DEG C. with nitrogen-atomized molten aluminium to a depth of 150 microns. Still in nitrogen/hydrogen, at 350 DEG C., the coated strip is rolled. Under these conditions, the aluminium is subjected to very high compressive stress (compared with its yield stress) while the steel does not even reach its yield stress.

IPC 1-7

C23C 7/00

IPC 8 full level

C23C 2/00 (2006.01); **C23C 2/12** (2006.01); **C23C 4/12** (2006.01); **C23C 4/18** (2006.01)

CPC (source: EP US)

C23C 4/123 (2016.01 - EP US); **C23C 4/18** (2013.01 - EP US)

Citation (search report)

- GB 1489618 A 19771026 - SUMITOMO METAL IND
- EP 0017944 A1 19801029 - UNION CARBIDE CORP [US]

Cited by

EP0299944A3; US5143139A; EP0463578A1; DE19847608A1; DE19847608B4; EP0511131A1; FR2675821A1; US5284533A; WO8912115A1

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